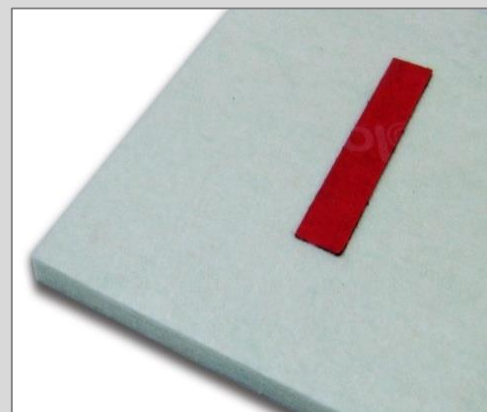


TECHNICAL SPECIFICATION

Acoustic insulation panels made of two rubber bearings inserted in a polyester fiber mat, with a total thickness of ... mm. The bearings are made of SBR and EPDM rubber granules and fibers compacted using polyurethane glue in a hot process, protected with a non-woven, non-stretch, synthetic membrane on one side; the dimensions of the rubber bearings are 300 mm x 50 mm. The polyester fiber mat has a density of ... kg/m³ and the total dimensions of the assembled panel are 1000 mm x 600 mm.



PHYSICAL CHARACTERISTICS	Standard	Unit	HIGHMAT 20	HIGHMAT 30	Tolerance
Thickness		mm	20	30	± 2
Superficial weight	EN 1602	kg/m ²	1,65	1,90	± 10%
Colour			red/black/green		
<i>Rubber bearings</i>					
Length	EN 822	mm	300		± 1%
Width	EN 822	mm	50		± 5%
Density	EN 1602	kg/m ³	500		± 5%
<i>Polyester fiber panel</i>					
Length	EN 822	m	1,0		± 1%
Width	EN 822	m	0,6		± 1%
Density	EN 1602	kg/m ³	60	40	± 10%

ACOUSTIC CHARACTERISTICS	Standard	Unit	HIGHMAT 20	HIGHMAT 30	Tolerance
Dynamic stiffness s'_t ⁽¹⁾	EN 29052-1	MN/m ³	11	6	± 2
Impact sound pressure level attenuation ΔL_w laboratory test ⁽²⁾	EN ISO 10140 EN ISO 717-2	dB	≥ 34	≥ 36	

TECHNICAL CHARACTERISTICS	Standard	Unit	HIGHMAT 20	HIGHMAT 30	Tolerance
Compressibility c ⁽¹⁾	EN 12431	mm	≤ 4,5	≤ 5,5	
Thermal conductivity coefficient λ	EN 12667	W/m K	0,040		
Reaction to fire of bearing	EN 13501-1		E_{fl}		
Reaction to fire of panel	EN 13501-1		B-s2-d0		

PACKING AND STORING

Each pallet is wrapped and protected with waterproof polythene film. Inside storage is required protected from rainfall.

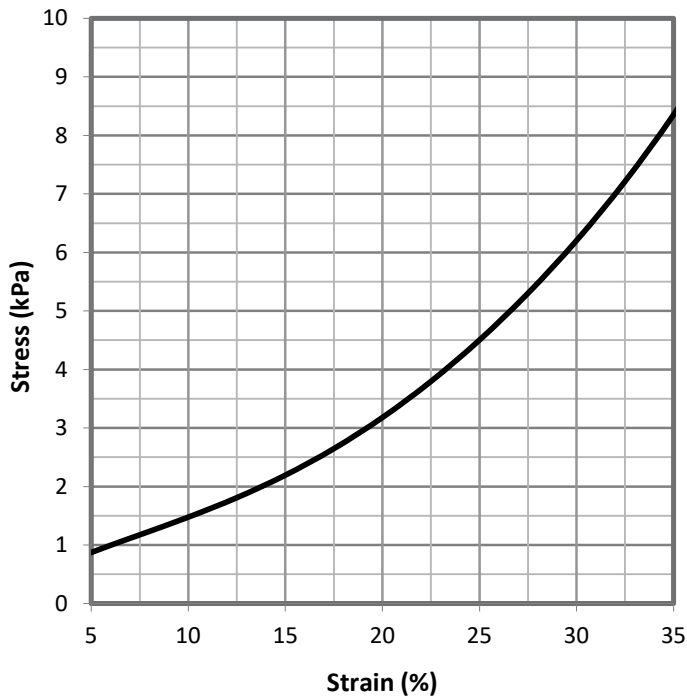
NOTES

⁽¹⁾ Measurement carried on a sample with dimension 20 cm x 20 cm, with relative quantities of supports and filler proportional to the panels' s'_t ⁽¹⁾, without gypsum plaster layer between steel plate and sample.

⁽²⁾ Test report Highmat 20 n° 16-3642-002 at EcamRicert (Italy); Highmat 30 n° 16-3642-001 at EcamRicert (Italy).

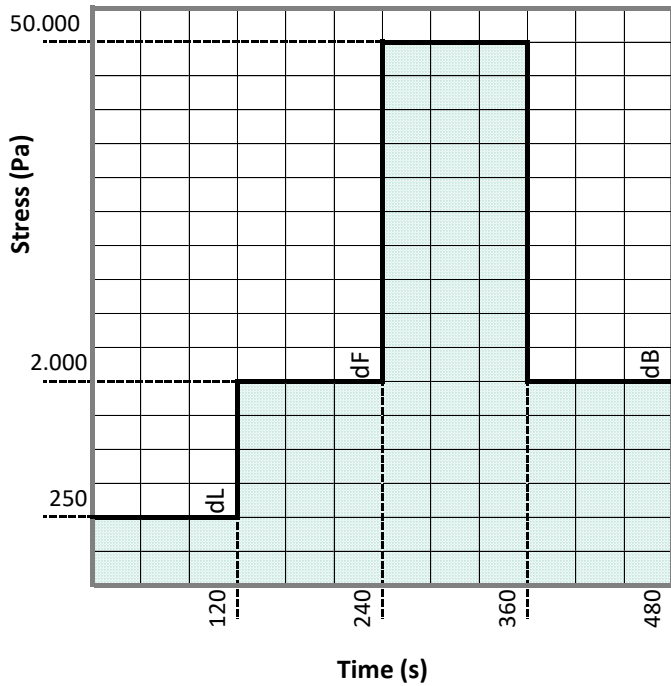
The suggestions and technical information given above represent our knowledge regarding the properties and the product's uses. ISOLGOMMA reserve the right to modify or update this data without prior notice. This document is the property of ISOLGOMMA and all rights are therefore reserved.

COMPRESSION BEHAVIOR - EN 826



	Unit	σ_{10}	Tolerance
HIGHMAT 20 HIGHMAT 30	kPa	$\geq 1,5$	

THICKNESS AND COMPRESSIBILITY - EN 12431

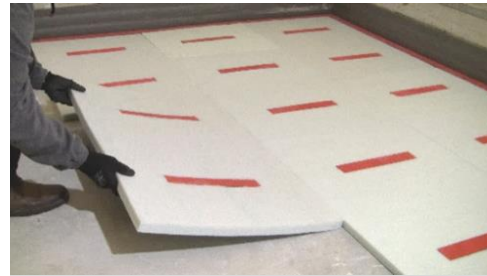


	Unit	dL	dF	dB	Tolerance
HIGHMAT 20 HIGHMAT 30	mm	21 30	18,5 27,5	16,5 24,5	$\pm 5\%$

INSTALLATION INSTRUCTIONS



Install the adhesive strip Profyle Flat to the wall and the Side Highmat along the whole perimeter.



Install Highmat on the whole surface, staggered between two adjacent rows.



Seal any gaps higher than 2 mm between panels, using the Stik tape.



Apply a waterproof foil on the whole surface to protect the resilient layer.



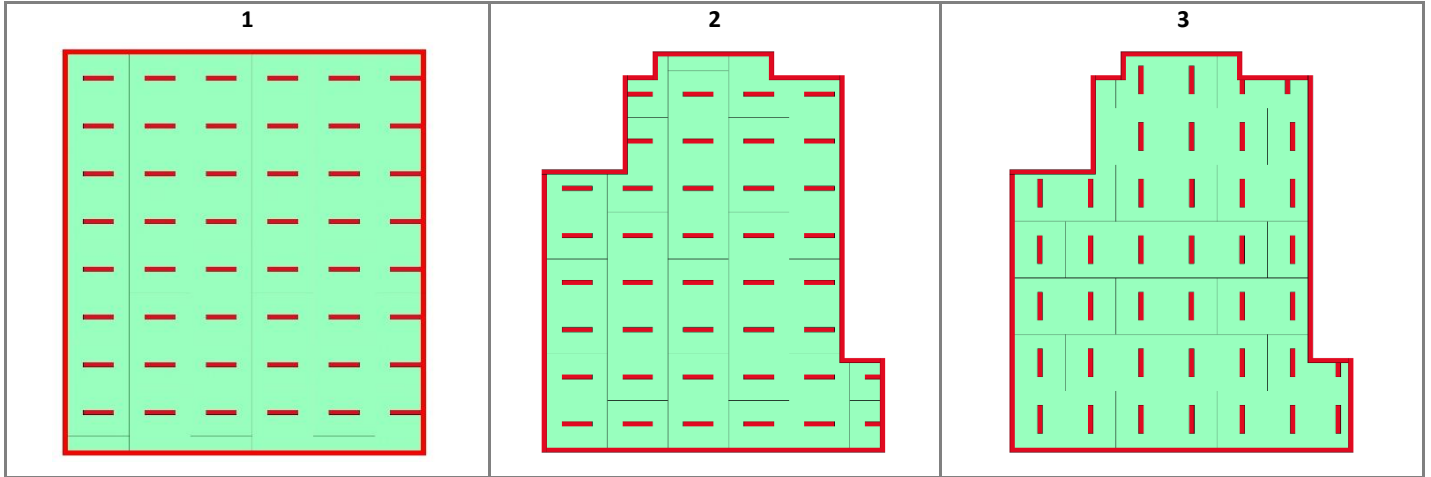
Install the reinforcement mesh (\varnothing 5 mm, net 200 mm) and build the screed (th. > 60 mm).



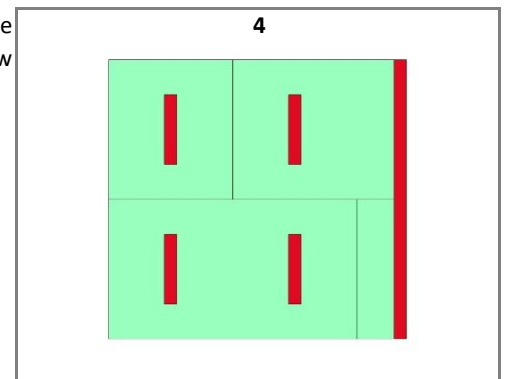
Apply the finishing on top of the screed and cut the exceeding edging strip only at the end.

SPECIFIC LAYING INSTRUCTIONS FOR THE HIGHMAT PANEL AND ACCESSORIES

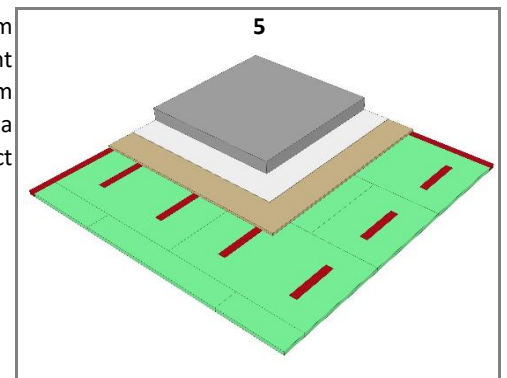
After preparing the laying surface, the Profyle Flat and the Highmat Side along the perimeter, start laying a full Highmat panel and proceed in the same direction so that the rubber supports are aligned between adjacent rows [1]. The orientation of the rows is at the discretion of the installer [2] [3]



At the end of the row, proceed with a cut of the Highmat panel when necessary. The waste can be used in the subsequent end-of-line or it can be reduced to half panel to start a new row [4]



The sand and cement screed or leveling screed must have a thickness of more than 6 cm and a density of at least 2000 kg / m³ and must also be reinforced by a reinforcement mesh of 5 mm diameter and 200 mm mesh positioned at a height of about 20 mm from the top of the resilient mattress. For screed thicknesses greater than 100 mm, use a wooden panel as a disposable formwork (at least 15 mm thick) [5]. Before casting, protect the surface with a waterproof sheet.



During the casting of the screed the Highmat product may undergo a partial deflection in correspondence with the part of the polyester fiber panel [6]

